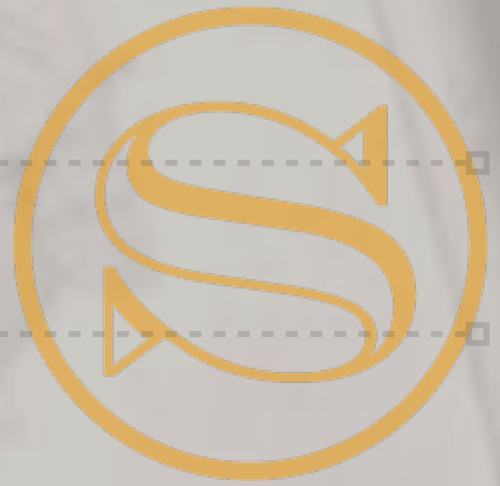
4 RHYTHM

4.1 Vertical Rhythm

4.2 Baseline Setup

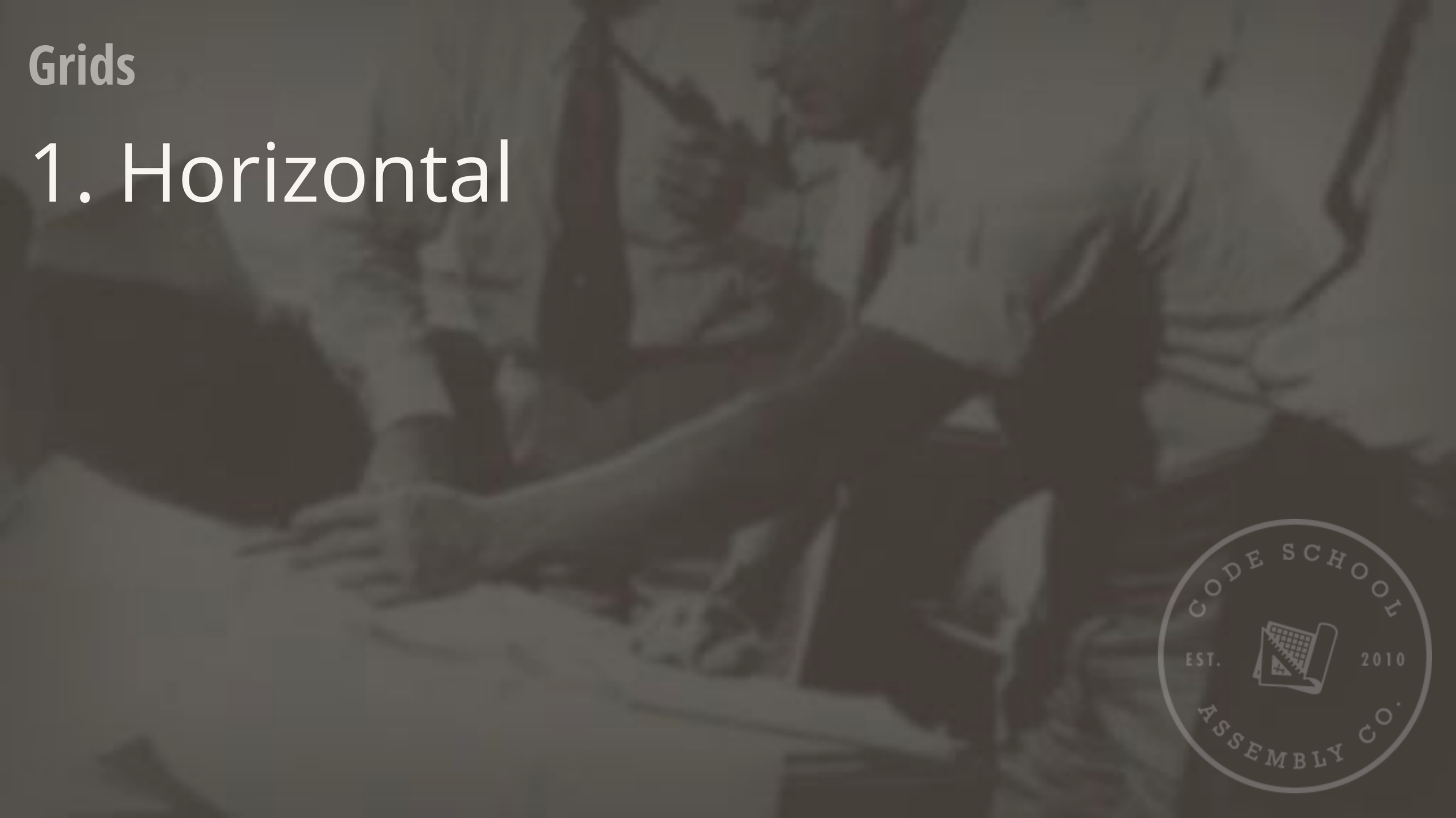
4.3 Size + Leading

4.4 Margin, Padding, + Borders



Grids

1. Horizontal



Susy - http://susy.oddbird.net

4.1 Vertical Rhythm

Grids

~~1. Horizontal~~

2. Vertical (Baseline)

Rivets, Welds, and You

High-quality welding work is a necessity where promotion consideration is concerned. One who neglects the smallest detail cannot be put in charge of the whole.

> Assembly is, and will always be, in the details.

Rivets don't merely give metalwork character - they serve a vital function in joining pieces with strong cohesion. Use liberally where necessary, and always with care.

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We'll be adding rhythm to this snippet of HTML:

index.html

```
<h1>Rivets, Welds, and You</h1>
<p>High-quality welding work is a necessity where promotion
consideration is concerned. One who neglects the smallest
detail cannot be put in charge of the whole.</p>
<blockquote>Assembly is, and will always be, in the
details.</blockquote>
<p>Rivets don't merely give metalwork character - they serve
a vital function in joining pieces with strong cohesion. Use
liberally where necessary, and always with care.</p>
```

4.1 Vertical Rhythm

Eyeballing tends to result in magic numbers and guesses:

application.sass

```
body
  font-size: 18px
  line-height: 1.66667
h1
  border-bottom: 2px solid #333
  font-size: 30px
  margin-bottom: 30px
blockquote
  background: #ccc
  line-height: 3.33333
  text-align: center
p
  margin: 18px 0
```

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Feel the Rhythm, Feel the Rhyme

- We'll add a baseline grid and allow **it** to manage spacing, line heights, and margins
- Starting with just a reset:

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Begin with Compass global variables and `establish-baseline`:

application.sass

```
@import "compass"

$base-font-size: 18px
$base-line-height: 30px
+establish-baseline
```

application.css

```
html {
  font-size: 112.5%;
  line-height: 1.667em;
}
```

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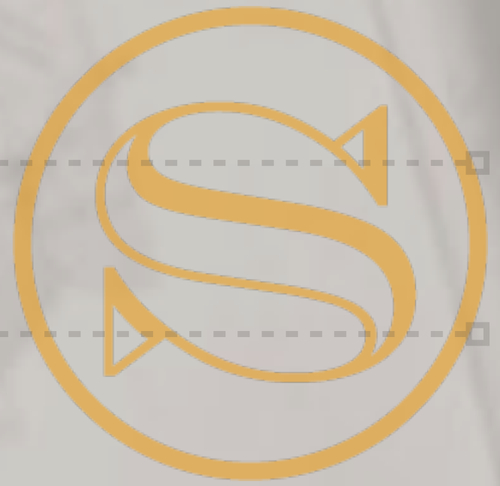
```
@import "compass"

$base-font-size: 18px
$base-line-height: 30px
+establish-baseline
```

4.1 Vertical Rhythm

4.2 Baseline Setup

4.3 Size + Leading

4.4 Margin, Padding, + Borders



`adjust-font-size-to` keeps size alterations from disrupting the grid:

application.sass

```
@import "compass"

...

h1
  +adjust-font-size-to(50px)
```

application.css

```
h1 {
  font-size: 2.778em;
  line-height: 1.2em;
}
```

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```
@import "compass"

...

h1
  +adjust-font-size-to(50px)
```

Typography Corner

Leading (distance between baselines) originates from typesetting by hand - strips of lead separated lines of text

`adjust-leading-to` tweaks the amount of vertical space occupied:

application.sass

```
@import "compass"

...

blockquote
  +adjust-leading-to(2)
  background: #ccc
```

application.css

```
blockquote {
  line-height: 3.333em;
  background: #cccccc;
}
```

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```
@import "compass"

...

blockquote
  +adjust-leading-to(2)
  background: #ccc
```

Rhythm mixins need to be notified of font size adjustments:

application.sass

```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +adjust-leading-to(2)
  background: #ccc
```

application.css

```
blockquote {
  font-size: 1.111em;
  line-height: 1.5em;
  line-height: 3.333em;
  background: #cccccc;
}
```

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```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +adjust-leading-to(2)
  background: #ccc
```

Rhythm mixins need to be notified of font size adjustments:

application.sass

```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +adjust-leading-to(2, 20px)
  background: #ccc
```

application.css

```
blockquote {
  font-size: 1.111em;
  line-height: 1.5em;
  line-height: 3em;
  background: #cccccc;
}
```

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```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +adjust-leading-to(2, 20px)
  background: #ccc
```

Always be wary of the CSS generated by your Sass file:

application.sass

```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +adjust-leading-to(2, 20px)
  background: #ccc
```

application.css

```
blockquote {
  font-size: 1.111em;
  line-height: 1.5em;
  line-height: 3em;
  background: #cccccc;
}
```

4.3 Size + Leading

Assembly Tip

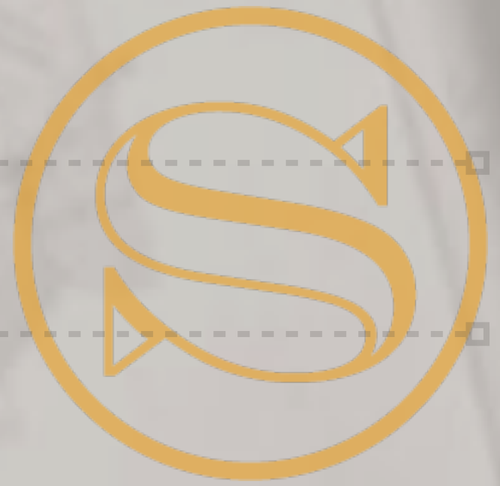
Use Vertical Rhythm carefully - misuse or overuse can cause bloat

4.1 Vertical Rhythm

4.2 Baseline Setup

4.3 Size + Leading

4.4 Margin, Padding, + Borders



`leader` and `trailer` are used to add margin:

application.sass

```
@import "compass"

...

p
  +leader(1)
  +trailer(1)
```

application.css

```
p {
  margin-top: 1.667em;
  margin-bottom: 1.667em;
}
```

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```
@import "compass"

...

p
  +leader(1)
  +trailer(1)
```

Reminder - notify rhythm mixins of font size adjustments:

application.sass

```
@import "compass"

...

h1
  +adjust-font-size-to(50px)
  +trailer(2, 50px)
```

application.css

```
h1 {
  font-size: 2.778em;
  line-height: 1.2em;
  margin-bottom: 1.2em;
}
```

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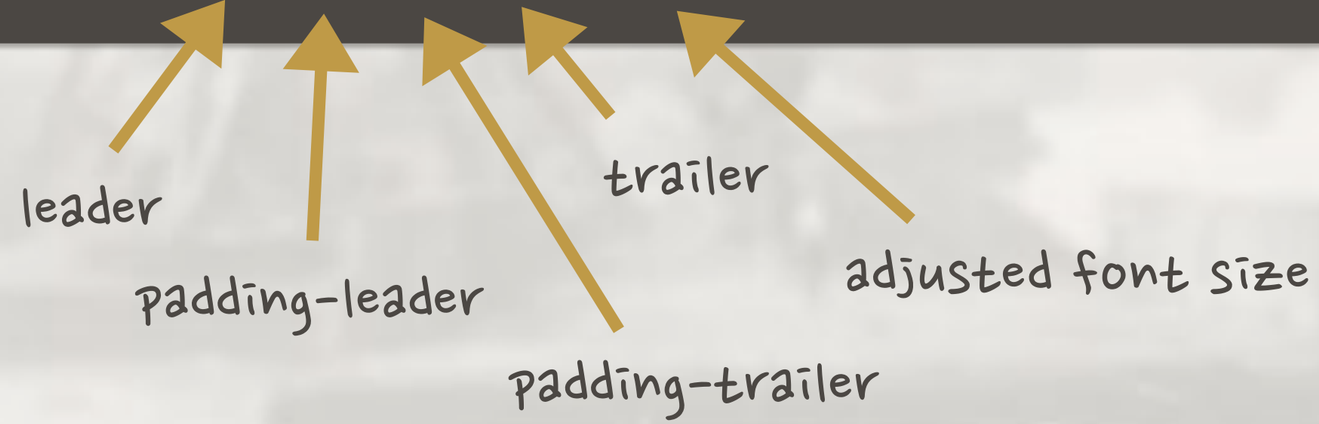
```
@import "compass"

...

h1
  +adjust-font-size-to(50px)
  +trailer(2, 50px)
```

Other Spacing Mixins

- padding-leader
- padding-trailer
- rhythm

```
h2
  +rhythm(1, 1, 1, 2, 36px)
```



Standard borders throw off our grid:

application.sass

```
@import "compass"

...

h1
  +adjust-font-size-to(50px
  +trailer(2, 50px)
  border-bottom: 10px solid #000
```

application.css

```
h1 {
  font-size: 2.778em;
  line-height: 1.2em;
  margin-bottom: 1.2em;
  border-bottom: 10px solid #000;
}
```

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```
@import "compass"

...

h1
  +adjust-font-size-to(50px
  +trailer(2, 50px)
  border-bottom: 10px solid #000
```

`leading-border` and `trailing-border` are grid-friendly alternatives:

application.sass

```
@import "compass"

...

h1
  +adjust-font-size-to(50px
  +trailer(2, 50px)
  +trailing-border(10px, 1, 50px)
```

border width

units of padding

font size, if necessary

application.css

```
h1 {
  font-size: 2.778em;
  line-height: 1.2em;
  margin-bottom: 1.2em;
  border-bottom-style: solid;
  border-bottom-width: 0.2em;
  padding-bottom: 0.4em;
}
```

4.4 Margin, Padding, + Borders

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```
@import "compass"

...

h1
  +adjust-font-size-to(50px
  +trailer(2, 50px)
  +trailing-border(10px, 1, 50px)
```

`rhythm-borders` adds border and uniform whitespace:

application.sass

```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +rhythm-borders(2px, 1, 20px)
```

application.css

```
blockquote {
  font-size: 1.111em;
  line-height: 1.5em;
  border-style: solid;
  border-width: 0.1em;
  padding: 1.4em;
}
```

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```
@import "compass"

...

blockquote
  +adjust-font-size-to(20px)
  +rhythm-borders(2px, 1, 20px)
```

application.sass

```
@import "compass"
$base-font-size: 18px
$base-line-height: 30px
+establish-baseline

h1
  +adjust-font-size-to(50px)
  +trailer(2, 50px)
  +trailing-border(10px, 1, 50px)
blockquote
  +adjust-font-size-to(20px)
  +rhythm-borders(2px, 1, 20px)
p
  +leader(1)
  +trailer(1)
```

4.4 Margin, Padding, + Borders

Assembly Tip

Baseline grids are difficult on the web: use when appropriate